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MARCH 08, 2001

CLARK & ELBING LLP KAREN L. ELBING, PH.D. 176 FEDERAL STREET BOSTON, MA 02110

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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2000

REEL/FRAME: 011370/0420

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

XU, WILSON C.

DOC DATE: 10/11/2000

ASSIGNEE:

GENERAL HOSPITAL CORPORATION, THE 55 FRUIT STREET

BOSTON, MASSACHUSETTS 02114

SERIAL NUMBER: 09189653 PATENT NUMBER: 6171792

FILING DATE: 11/10/1998 ISSUE DATE: 01/09/2001

SERIAL NUMBER: 60065273

PATENT NUMBER:

FILING DATE: 11/10/1997

ISSUE DATE:

JEFFREY OLSEN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS 12-29-2000

Substitute Form PTO-1595

101566513

y Docket Number: 00786/317002

Certificate of Maliffig. Date of Deposit. December 6, 2000
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first
I class mail with sufficient postage on the date indicated above and is addressed to BOX ASSIGNMENT. Director of the United
States Patent and Trademark Office, Washington, D.C. 20231.

Colleen Coyne
Printed Name

Colleen Corne

Signature

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Please record the attached document.	
Names of all conveying parties:	2. Names and addresses of all receiving parties:
C. Wilson Xu	The General Hospital Corporation 55 Fruit Street
Additional names attached: NO	Boston, MA 02114
	Additional names/addresses attached: NO
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: Execution Date: 10/11/00	
4. Application numbers or patent numbers;	
A. Patent Application Numbers: 09/189,653 60/065,273	B. Patent Numbers:
5. Name and address of party to whom correspondence concerning document should be mailed: Karen L. Elbing, Ph.D. Reg. No. 35.238 Clark & Elbing LLP 176 Federal Street Boston, MA 02110	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR 3.41): \$80.00 [X] Fee enclosed [] Authorized to charge deposit account 8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to Deposit Account No. 03-2095.

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 Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

Karen L. Elbing, Ph.D. Name of person signing Signature J. El

6 December 2000

12/28/2000 GTDN11 00000128 09189653

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For valuable consideration, we.

Full Name of Assignor	City	State (and Country if not USA)
Roger Brent	Berkeley	California
C. Wilson Xu	New York	New York
Andrew R. Mendelsohn	Sausalito	California
Walter L. Lok	San Francisco	California

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address	
The General Hospital Corporation	Massachusetts	55 Fruit Street Boston, MA 02114	
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and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Filing Date	Serial Number
November 10, 1998	09/189,653
November 10, 1997	60/065,273
	November 10, 1998

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treatives of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for

said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. In WITNESS WHEREOF, I hereto set my hand and seal at ___ this ___ day of ROGER BRENT STATE OF ____ .22. COUNTY OF ___ Before me this _____ day of ____ 19__ personally appeared ROGER BRENT known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained. Notary Public My Commission Expires: [Notary's Seal Here] IN WITNESS WHEREOF, I hereto set my hand and seal at 1275 York Aire NY NY 10021 Before me this // the day of October, 19, personally appeared C. WILSON XU known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained. GAIL M. PLATONI NOTARY PUBLIC, State of New York No. 03-4907327 My Commission Expires: [Notary's Seal Here] Qualified in Bronx County Commission Expires Sept. 28, 2 00/

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STATE OF	•	

COUNTY OF		
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	My Commission Expires:	
Notary's Seal Here]		
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DECEMBER 13, 2000

CLARK & ELBING LLP KAREN L. ELBING 176 FEDERAL STREET BOSTON, MA 02110



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RECORDATION DATE: 10/10/2000

REEL/FRAME: 011165/0616 NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BRENT, ROGER

DOC DATE: 02/05/1999

ASSIGNOR:

LOK, WALTER L.

DOC DATE: 01/26/1999

ASSIGNEE:

GENERAL HOSPITAL CORPORATION, THE 55 FRUIT STREET BOSTON, MASSACHUSETTS 02114

SERIAL NUMBER: 09189653

PATENT NUMBER:

FILING DATE: 11/10/1998

ISSUE DATE:

MARCUS KIRK; EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

00T 16

Substitute Form PTO-1595

101494542

Attorney Docket Number: 00786/317002

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States Patent and Trademark Office, Washington, D.C. 20231.
$h = h \cdot $
Colleen Covne Coller Carrel
Printed Name / Signature

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2. Names and addresses of all receiving parties;
The General Hospital Corporation 55 Fruit Street
Boston, MA 02114
Additional names/addresses attached: NO
50 0101 09m 80
B. Patent Numbers:
6. Total number of applications/patents involved
7. Total fee (37 CFR 3.41): \$40.00 [X] Fee enclosed
[] Authorized to charge deposit account
8. Deposit account number: 03-2095. If the fee
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duplicate copy of this cover sheet is attached. Please apply any additional charges, or any
credits, to Deposit Account No. 03-2095.
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Karen L. Elbing, Ph.D. Name of person signing

~01 FC:581

ASSIGNMENT

For valuable consideration, we,

Full Name of Assignor	me of Assignor City Si	
Roger Brent	Berkeley	California
C. Wilson Xu	New York	New York
Andrew R. Mendelsohn	Providence	Rhode Island
Walter L. Lok	San Francisco	California

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
The General Hospital Corporation	Massachusetts	55 Fruit Street Boston, MA 02114

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Title of Application	Filing Date	Serial Number	
DETECTION SYSTEMS FOR REGISTERING PROTEIN INTERACTIONS AND FUNCTIONAL RELATIONSHIPS	November 10, 1998	09/189,653	
DETECTION SYSTEMS FOR REGISTERING PROTEIN INTERACTIONS AND FUNCTIONAL RELATIONSHIPS	November 10, 1997	60/065.273	

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for

representatives and assigns, withor further applications, assignments,	Preliminary Statements a	to perform such and other lawful	n lawful acts and to documents as the	sign such Assignee
may reasonably request to effectu	, ,			
IN WITNESS WHEREOF, I hereto set	t my hand and seal at	2162	5/+217407	
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ROGER BRENT	71			
STATE OF CONTRACTO				
COUNTY OF ALLAN	:ss.			
Before me this known to me to be the person who that na she executed the same as	5th day of <u>Febo</u> ose name is subscribed to his/her free act and deed	the foregoing A	Assignment, and ad	knowledged
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C. WILSON XU				L.S.
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said inventions and improvements; and we agree for ourselves and our respective heirs, legal

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MENDS and act contain	ELSOHN known to me knowledged that he/s	nis day of, 19, personally appeared ANDREW R. e to be the person whose name is subscribed to the foregoing Assignment, ne executed the same as his/her free act and deed for the purposes therein
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[Notary	r's Seal Here]	My Commission Expires:
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[Notar	y's Seal Here]	My Commission Expires: Jan 15 . 0 - USHA K. POTTER 2 Comm. #1122070 LAMERA COMPTON D LAMERA COMPTON D Comm. Exp. Jan. 15, 200 1

Substitute Form PTO-1595

Attorney Docket Number: 00786/317002

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PATENTS ONLY

Please record the attached document.				
Names of all conveying parties:	2. Names and addresses of all receiving parties:			
Andrew R. Mendelsohn	The General Hospital Corporation 55 Fruit Street Boston, MA 02114			
Additional names attached: NO	Additional names/addresses attached: NO			
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: Execution Date: 8/4/03				
4. Application numbers or patent numbers:	·			
A. Patent Application Numbers: 09/189,653 (now U.S. Patent No. 6,171,792 B1) 60/065,273	B. Patent Numbers:			
5. Name and address of party to whom correspondence concerning document should be mailed: Karen L. Elbing, Ph.D., REG. NO. 35,238 Clark & Elbing LLP 101 Federal Street Boston, MA 02110 Customer No.: 21559	6. Total number of applications/patents involved: 2 7. Total fee (37 C.F.R. § 3.41); \$80.00 [X] Fee enclosed [] Authorized to charge deposit account 8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to Deposit Account No. 03-2095.			

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correct and the attached is the original document or a true copy thereof.	
correct and the attached is the original document of a true copy thereof.	Λ

Kristina Bieker-Brady, Ph.D. Name of person signing

House 14, Zoo3

ASSIGNMENT

For valuable consideration, we.

Full Name of Assignor City		State (and Country if not USA)		
Roger Brent	Berkeley	California		
C. Wilson Xu	New York	New York		
Andrew R. Mendelsohn	Sausalito	California		
Walter L. Lok	San Francisco	California		

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
The General Hospital Corporation	Massachusetts	55 Fruit Street Boston, MA 02114

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

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